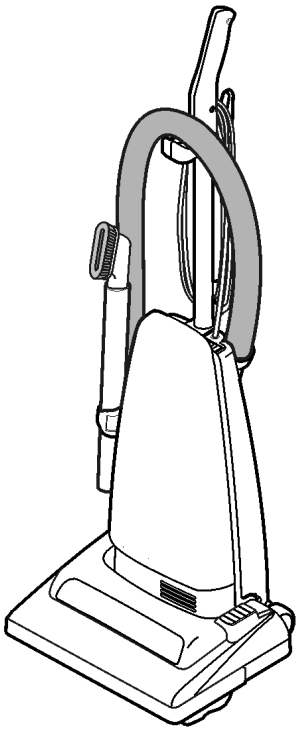
Order Number MAC0701001CE

Service Manual

Vacuum Cleaner

MC-UG371-00



Model	MC-UG371-00
Power Source	AC 120V (60 Hz)
Power Consumption	09.0 Amps
Cord Length	25 Ft.
Motor Protector	Yes
Height Adjust	Auto
Weight	14.5 lbs.

Specifications are subject to change without notice for further improvement.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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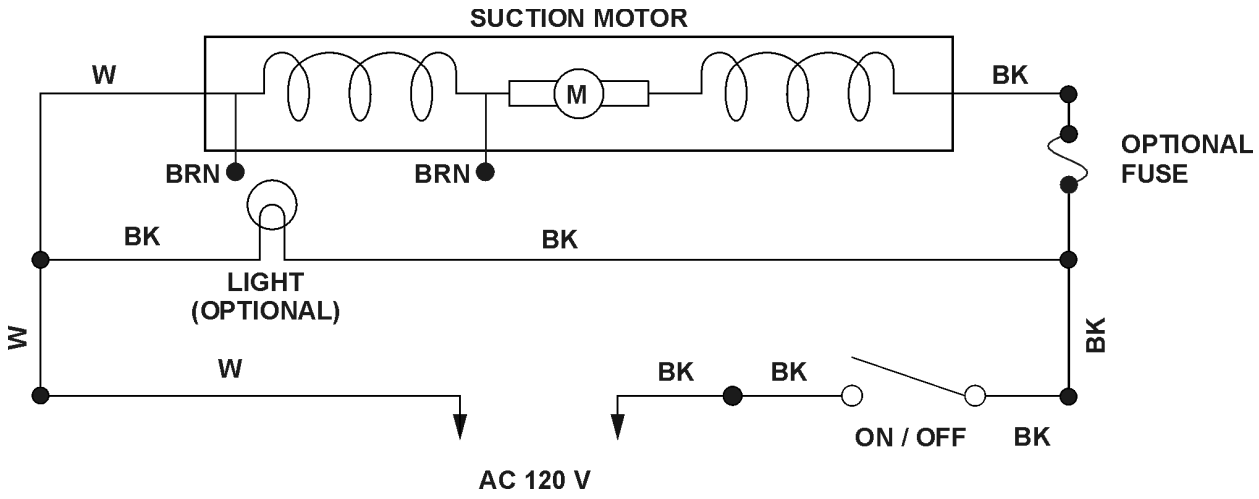
1 WIRING DIAGRAM AND DRAWING

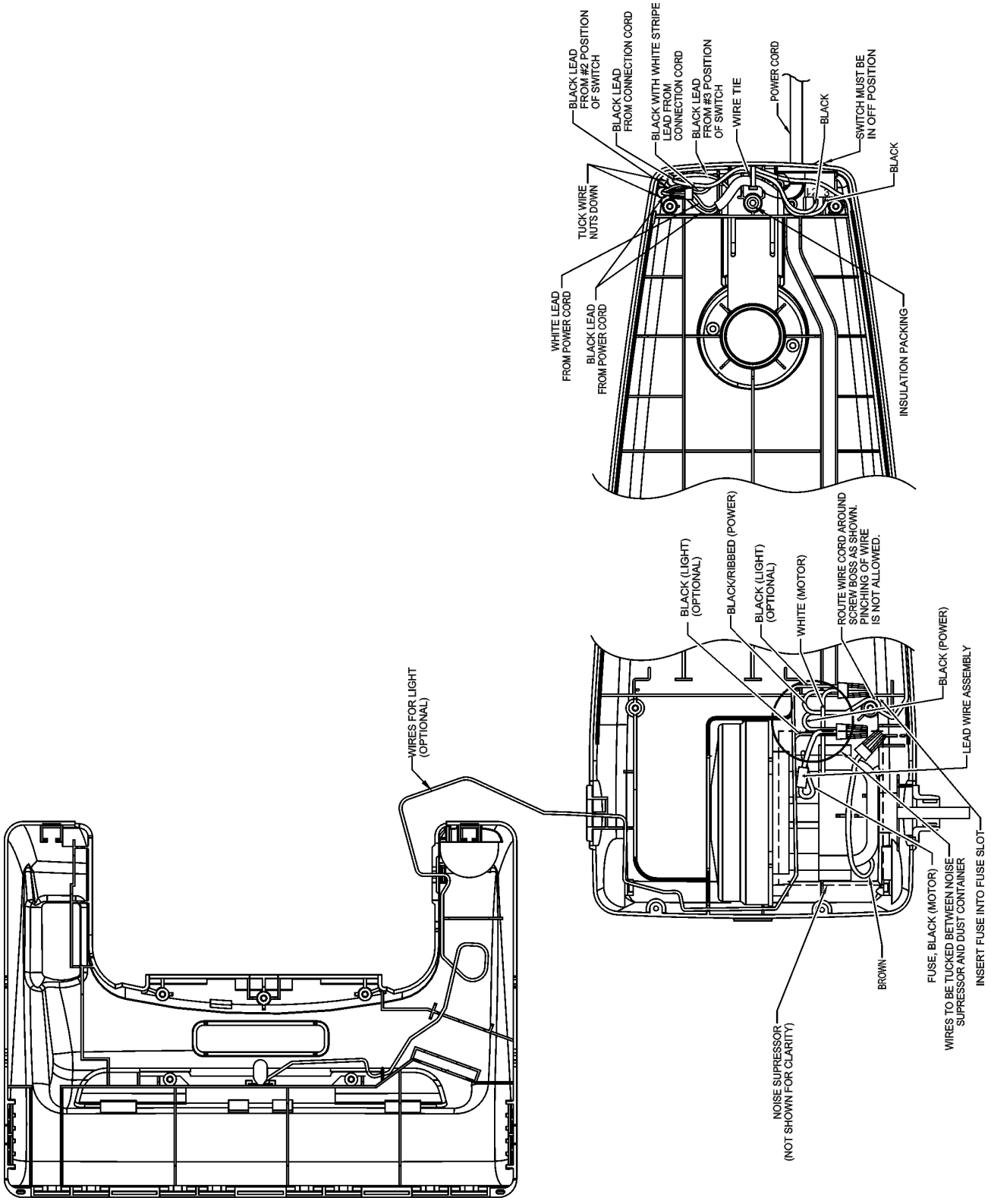
1.1. Wiring Diagram



1.2. PICTORIAL DIAGRAM

NOTE:

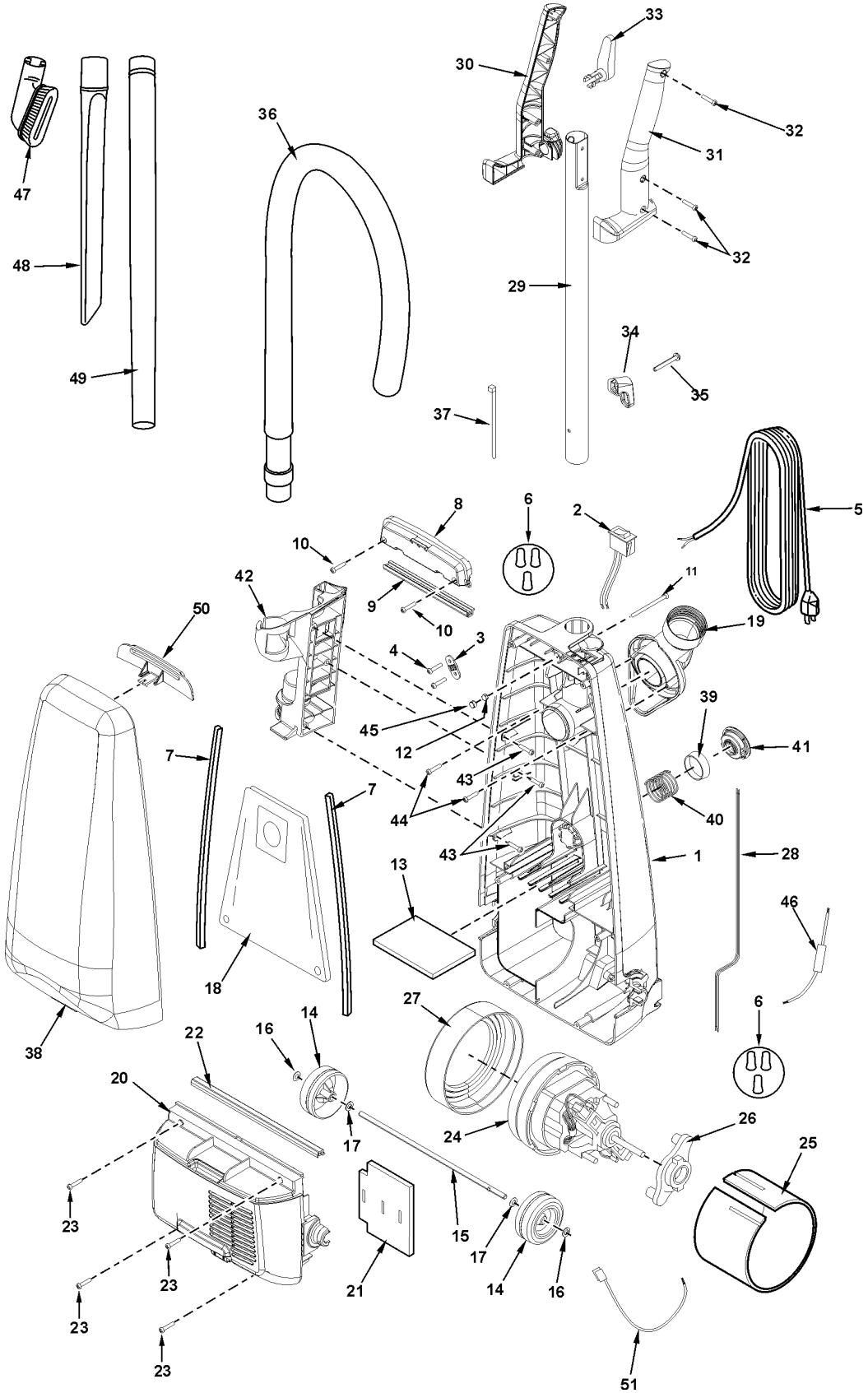
For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or electrical enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage.


BLACK LEAD FROM #2 POSITION OF SWITCH
BLACK LEAD FROM CONNECTION CORD
BLACK WITH WHITE STRIPE LEAD FROM CONNECTION CORD
BLACK LEAD FROM #3 POSITION OF SWITCH
WIRE TIE
POWER CORD
BLACK
SWITCH MUST BE IN OFF POSITION
BLACK
TUCK WIRE NUTS DOWN
WHITE LEAD FROM POWER CORD
BLACK LEAD FROM POWER CORD
INSULATION PACKING
BLACK (LIGHT) (OPTIONAL)
BLACK/RIBBED (POWER)
BLACK (LIGHT) (OPTIONAL)
WHITE (MOTOR)
ROUTE WIRE CORD AROUND SCREW BOSS AS SHOWN. PINCHING OF WIRE IS NOT ALLOWED.
BLACK (POWER)
LEAD WIRE ASSEMBLY
WIRES FOR LIGHT (OPTIONAL)
NOISE SUPRESSOR (NOT SHOWN FOR CLARITY)
BROWN
FUSE, BLACK (MOTOR)
WIRES TO BE TUCKED BETWEEN NOISE SUPRESSOR AND DUST CONTAINER
INSERT FUSE INTO FUSE SLOT

2 EXPLODED VIEW AND PARTS LIST

2.1. Body

2.1.1. Exploded View

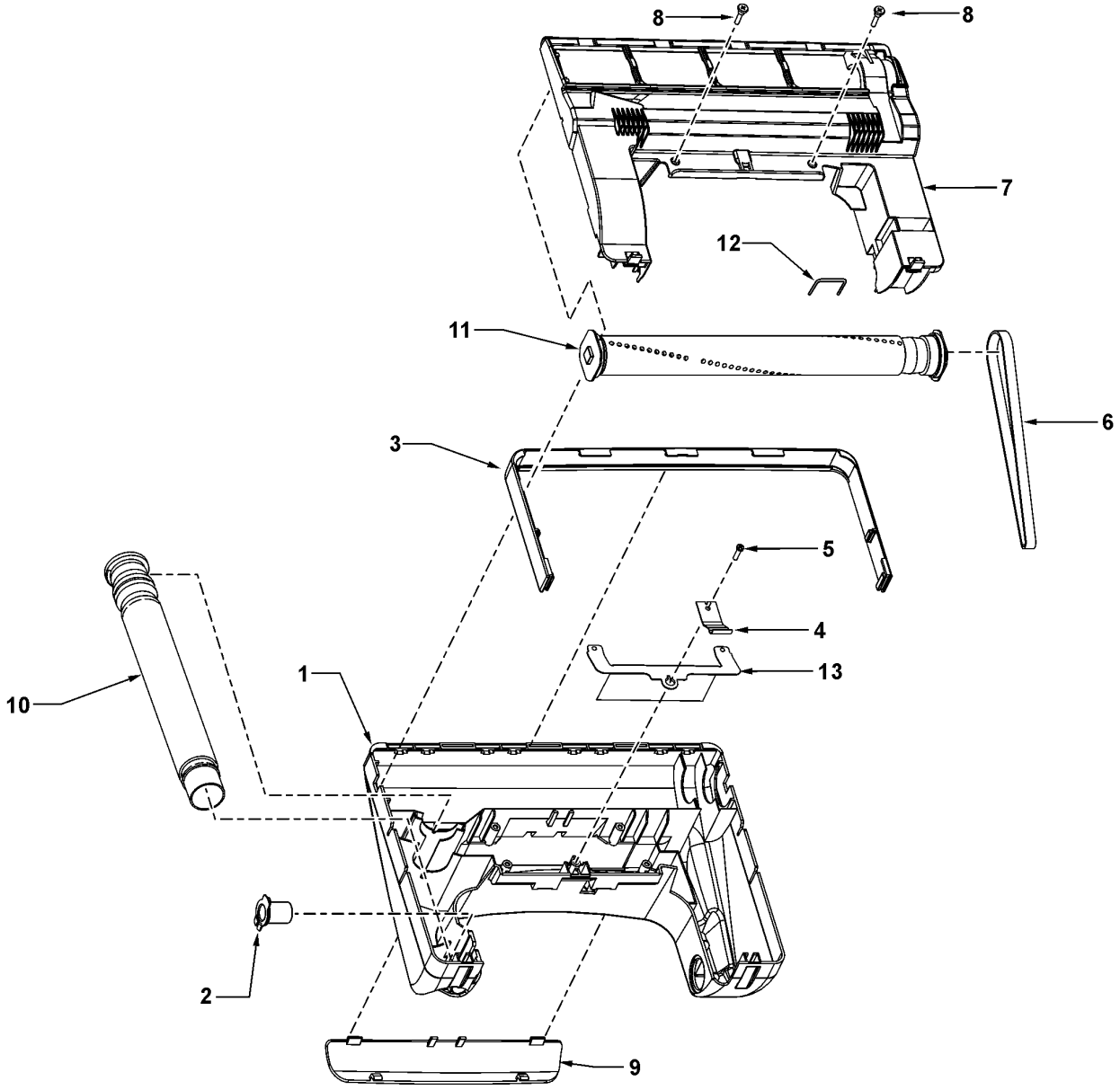


2.1.2. Parts List (Body)

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC40KBYL1V07	Dust Compartment	1	Includes items 41# 42
2	AMC98E-V010U	ON/OFF Switch	1	
3	AMC62E-J20	Cord Stopper	1	
4	AXTN4+16BFY	Screw (Cord Stopper)	2	Shipped 10 per package
5	AC97EPGZV06	Power Cord	1	
6	AC44DCYKZ000	Connector (Wire Crimp)	6	Shipped 10 per package
7	AC66KBYLZK12	Packing (Dust Container)	1	Shipped 2 per package
8	AC03EBYLZV07	Switch Cover	1	
9	AC73KBYLZK12	Packing (Switch Cover)	1	
10	AXTN4+16BFY	Screw (Switch Cover)	2	Shipped 10 per package
11	AMC73B-V00	Handle Screw	1	
12	AMP21B-170	Nut	1	
13	AMC37K-V00	Secondary Filter (Foam)	1	
14	AMC01C-V00U	Wheel	2	
15	AC16CUSZ000	Shaft (Wheel)	1	
16	AC74SUSZ000	Stopper (Wheel)	2	
17	AXWG6E115FY	Washer (Wheel)	2	Shipped 10 per package
18	AC16KJYZ00	Dust Bag (Type U6)	1	
19	AC60HBYLZV07	Suction Inlet	1	
20	AC09FBYLZC03	Motor Case	1	
21	AC02LBYLZ00	Filter (Motor Case)	1	
22	AC19FBYLZK12	Packing (Motor Case)	1	
23	AXTN4+20BFY	Screw (Motor Case)	4	Shipped 10 per package
24	AC92FCHRZ000	Fan Motor Unit	1	
25	AC99GAMMZ00	Noise Suppressor	1	
26	AC03FCJUZ000	Motor Support Rubber (Rear)	1	
27	AC02FCHGZ000	Motor Support Rubber (Front)	1	
28	AMC37G-V200U	Wire Cord	1	
29	AC64BBYLZ00	Handle Tube	1	
30	AC23BBYLZV07	Handle Grip (Left)	1	
31	AC22BBYLZV07	Handle Grip (Right)	1	
32	AXTN4+16BFY	Screws (Handle Grip)	3	Shipped 10 per package
33	AC53EBYLZV07	Upper Cord Storage Hook	1	
34	AC54EV0ZV07	Lower Cord Storage Hook	1	
35	AXTN4+30BFY	Screw (Lower Cord Storage Hook)	1	Shipped 10 per package
36	AC01PCHGZV06	Extension Hose	1	
37	AMC596-702	Wire Tie	1	Shipped 10 per package
38	AC60KDDGZCU3	Dust Cover	1	
39	AC69KJMZV07	Protector	1	
40	AC70KAHHZB00	Blue Protector Spring	1	
41	AC18MJMZV07	Protector Cover	1	
42	AC70PBYLZV07	Wand Holder	1	
43	AXTN4+16BFY	Screw (Wand Holder)	3	Shipped 10 per package
44	AXTN4+16BFY	Screw (Suction Inlet)	2	Shipped 10 per package
45	AC61LAGMZ00	Insulator Packing (Handle Screws)	1	
46	AC99WCHRZ000	Lead Assembly	1	
47	AC88RYUZV06	Dusting Brush	1	
48	AC60RZFZVU6	Crevice Tool	1	
49	AC40PZG1V06	Extension Wand	1	
50	AC08DBYLZV07	Latch, Dust Cover	1	
51	AC43GAWYZ000	Lead Wire	1	

2.2. Nozzle Housing

2.2.1. Exploded View

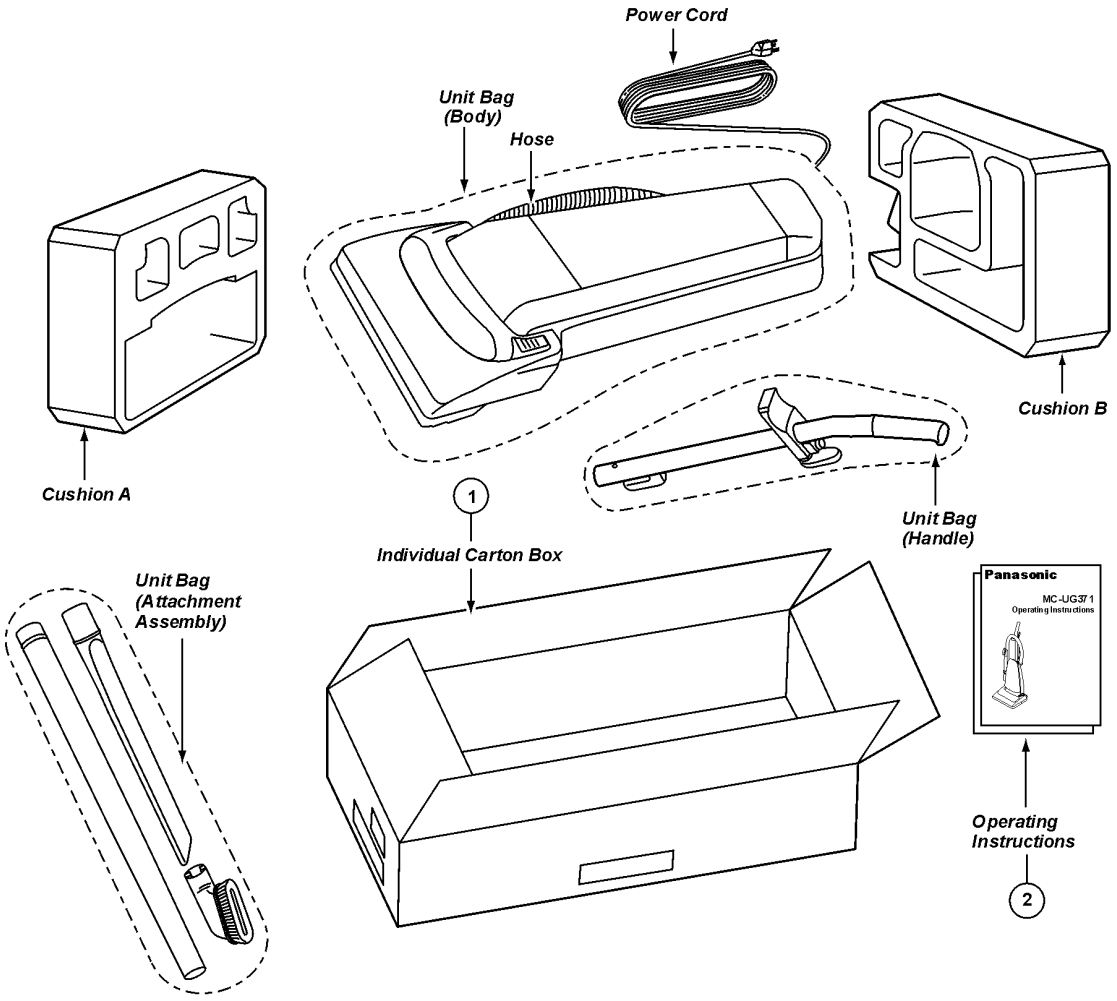


2.2.2. Parts List (Nozzle Housing)

Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC01ADDGZCU3	Nozzle Housing	1	
2	AMC25S-V00	Shaft (Plastic)	1	
3	AC10ABYLZV07	Furniture Guard	1	
4	AMC57A-V00	Spring (Pedal)	1	
5	AXTN4+16BFY	Screw (Pedal Spring)	1	Shipped 10 per package
6	AC28SCZPZ000	Belt	1	
7	AC27ABYLZV07	Lower Plate	1	
8	AXTN4+16BFY	Screw	2	Shipped 10 per package
9	AC21HBYLZC03	Window Cover	1	
10	AC34PAJDZV06	Nozzle Hose	1	
11	AC84RBUNZ00	Agitator Unit	1	
12	AMC43S-V00	Belt Cover	1	
13	AC53KBYLZ00	Slider Support	1	

2.3. Packing Materials

2.3.1. Exploded View



2.3.2. Parts List (Nozzle Housing)

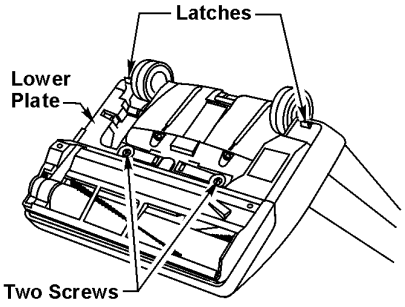
Ref. No.	Part No.	Part Name & Description	Quantity	Remarks
1	AC61ZDDGZ000	Packaging Assembly	1	
2	AC01ZDDGZ000	Operating Instruction	1	

3 REPLACEMENT INSTRUCTIONS

3.1. Lower Plate

3.1.1. Removal

1. Turn the vacuum cleaner over exposing the underside. Release the lower plate by removing the two (2) screws that secure the lower plate.
2. Remove the lower plate by depressing the two (2) latches at the back near the wheels and lift up, pivoting it toward the agitator until it releases from the slots in front. Remove any residue that may exist in the belt area.



3.1.2. Installation

1. Hook the front of the lower plate into the slots on the front of the nozzle housing. Press the lower plate down snapping the latches into place.

   NOTE: For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage.
2. Replace the two (2) lower plate mounting screws.

3.2. Belt Replacement

3.2.1. Removal

1. Follow the removal instructions outlined in the AGITATOR ASSEMBLY REMOVAL/INSTALLATION section.

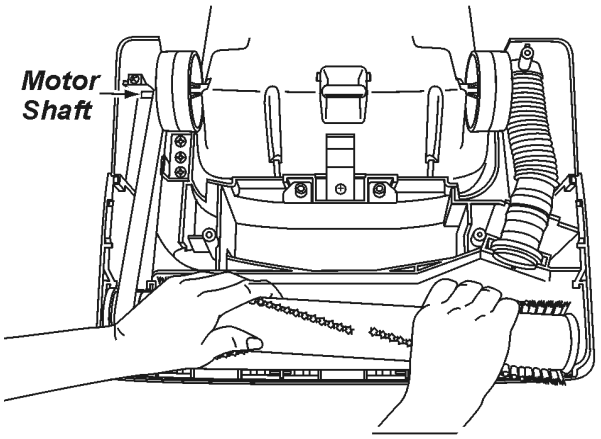
3.2.2. Installation

1. Place the new belt around the motor shaft and follow the installation instructions in the AGITATOR ASSEMBLY REMOVAL/INSTALLTION section.

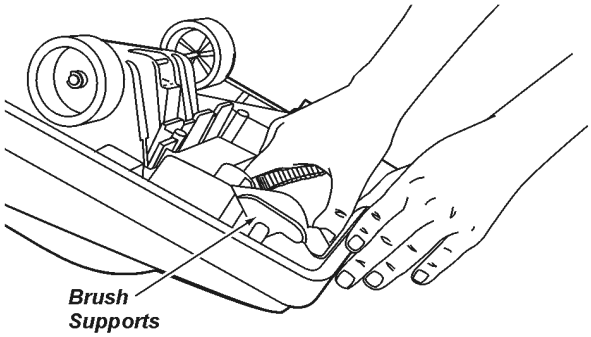
3.3. Agitator Assembly

3.3.1. Removal

1. The brushes are not replaceable separately. When the brushes need replacing, the agitator assembly will have to be replaced.
2. Remove the lower plate as outlined in the LOWER PLATE REMOVAL/INSTALLATION section.



3. Remove the belt from the motor shaft by sliding it off between the end of the shaft and the nozzle housing.



4. Carefully lift up on the agitator assembly until it clear both sides of the nozzle housing.

3.3.2. Installation

1. Place the belt around the motor shaft.
2. Place the belt around the agitator pulley on the agitator assembly.

   NOTE: There is a place for the belt to fit on one end of the agitator assembly only. This is the agitator pulley.
3. Reassemble the new agitator assembly back into the nozzle housing by placing the side opposite the belt partially into the slot. The small tabs should be aligned against the nozzle and the other against the lower plate. This will hold the agitator in place and leave both hands free to place enough tension on the belt to allow that side of the agitator to return to the nozzle housing slot.
4. Use both hands to pull the belt tight, and slide the agitator assembly firmly into the slots on each end of the nozzle housing.
5. Rotate the agitator assembly by hand to insure nothing rubs and check for correct assembly.
6. Replace the lower plate as outlined in the LOWER PLATE REMOVAL/INSTALLATION section.

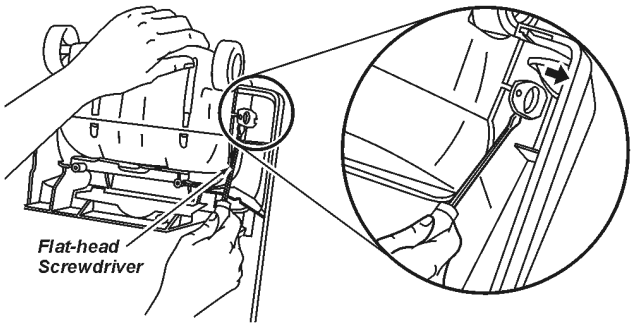
3.4. Nozzle Housing Replacement

3.4.1. Removal

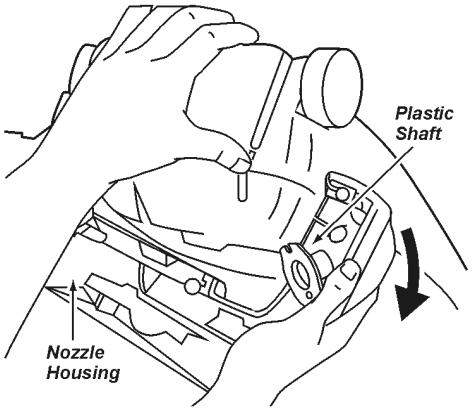
1. Remove the lower plate as outlined in the LOWER PLATE

REMOVAL/INSTALLATION section.

2. Remove the belt and agitator assembly as outlined in the respective sections.
3. Remove the nozzle hose by pulling up on the hose to remove it from the nozzle housing. Pull the nozzle hose out of the back of the nozzle housing.



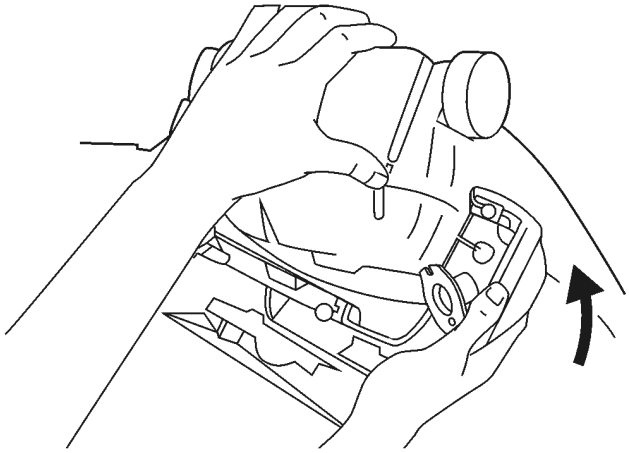
4. Insert a flat blade screwdriver between the nozzle housing and the plastic shaft. Pry out the plastic shaft as illustrated.



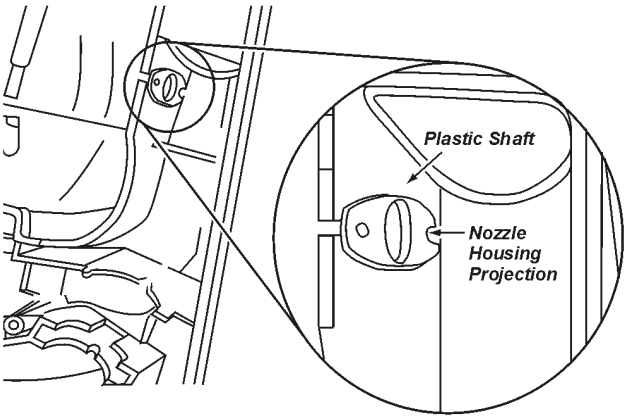
5. Remove the nozzle housing as illustrated.
6. Remove the nozzle packing, window and handle release assembly.

3.4.2. Installation

1. Install the nozzle packing, if not already in place, window and handle release assembly in the new nozzle housing.
2. Fit the nozzle around the motor shaft side first, and rotate it into place on the dust container as illustrated.



3. Slide the plastic shaft through the nozzle housing and into the dust container. Make sure that the slot on the bottom of the plastic shaft is down and seated onto the projection.

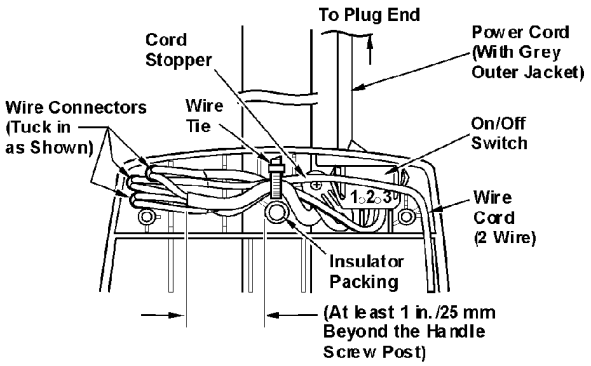


4. Reassemble the nozzle hose by inserting it into the nozzle housing. Push the nozzle hose down into the slot in the nozzle housing. Make sure that the tab on the hose supporter is inserted into the slot.
5. Install the belt, agitator assembly, and the lower plate according to the respective instructions.

3.5. Power Cord / On-Off Switch Replacement

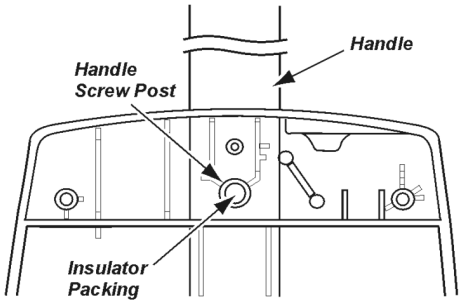
3.5.1. Removal

1. Remove the dust cover and switch cover to expose the electrical connections of the power cord, on-off switch and wire cord.
2. Pull the power cord into the dust compartment in order to remove the strain relief (for power cord replacement) by prying or cutting, remove the wire connections, and wire tie, if present.
3. Remove the on-off switch (for on-off switch replacement) by depressing the retaining tabs while pushing up and out of the dust compartment at the same time.
4. Pull the power cord out of the dust compartment (for power cord replacement).

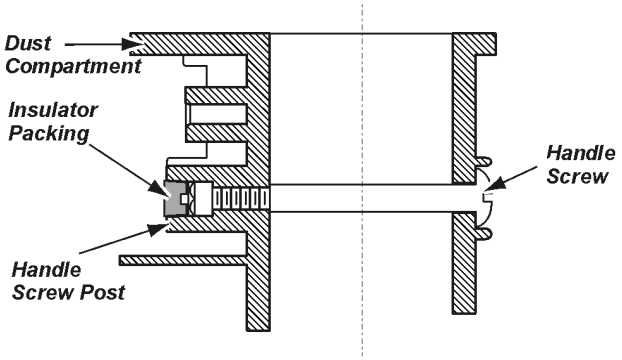

To Plug End
Cord Stopper
Power Cord (With Grey Outer Jacket)
Wire Connectors (Tuck in as Shown)
Wire Tie
On/Off Switch
1 2 3
Wire Cord (2 Wire)
Insulator Packing
(At least 1 in./25 mm Beyond the Handle Screw Post)

3.5.2. Installation

1. Insert the new power cord (power cord replacement only) into the dust compartment as far as necessary in order to place a new cord retainer in proper location on power cord. The proper location is approximately one and one eighth inches/thirty millimeters (1 1/8”/30mm) of new power cord outer jacket extending past the cord retainer and the dust compartment. Attach wires with wire connectors according to the wiring diagram in the front of this manual. ONLY USE A NEW CORD RETAINER, DO NOT REUSE A CORD RETAINER.
2. For switch replacement only, insert the new ON/OFF switch with the numbers 1,2,3, facing toward you, into the dust compartment until secured by the retaining tabs. Use a wire tie in the location illustrated taking care not to overtighten it. Tuck the wire connectors back into the dust compartment as illustrated in the close-up view.



3. Ensure that the insulator packing is installed correctly.



4. Replace the switch cover, the two (2) switch cover screws, and the dust cover. Care should be taken not to pinch wires and make sure that the switch cover goes on easily and stays flat. If there is resistance to the switch cover lying flat and in place, stop, remove the cover and make sure that no wires are being pinched. DO NOT USE A POWER SCREWDRIVER TO SECURE THE COVER.

NOTE: For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or electrical enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage.

3.6. Hose Replacement

3.6.1. Removal

1. Remove the dust cover and dust bag.
2. Remove the end of the hose from the wand. Remove the hose by removing the two screws which secure it to the dust compartment.

3.6.2. Installation

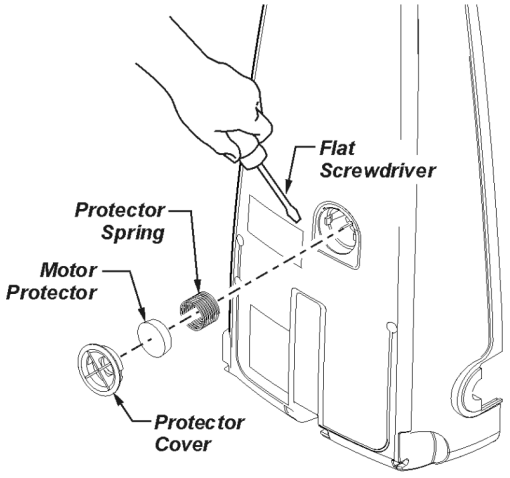
1. Install the new hose by replacing the two screws which secure it to the dust compartment.
2. Replace the hose onto the wand.
3. Replace the dust bag and dust cover.

3.7. Motor Protector Replacement

3.7.1. Removal

1. Remove the motor protector by prying out with a flat screwdriver as shown.
2. Once the motor protector is out it can be disassembled for part replacement.

   NOTE: There are two (2) locking tabs present, but only one needs to be released.For reassembly refer top the illustration.
3. Once the motor protector has been removed it can be disassembled for replacement of parts.



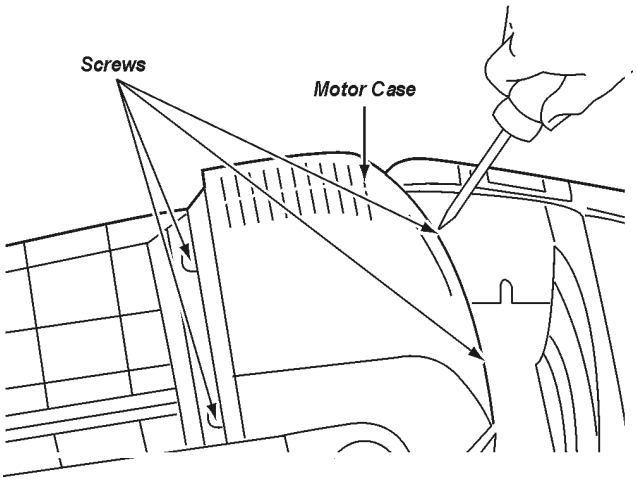
3.7.2. Installation

1. Reinstall the motor protector into the dust compartment by aligning the two tabs with the slots in the dust compartment by applying pressure from the back of the vacuum until it snaps into place.

3.8. Motor Replacement

3.8.1. Removal

1. Remove the dust cover by grasping the top near the on-off switch and pulling sharply out toward you.



2. Remove the lower plate, agitator assembly, belt, the plastic shaft, and the nozzle housing as instructed in the respective removal sections.
3. Turn the vacuum over to the front side.
4. Remove the four (4) screws from the motor case and then remove the motor case.
5. Disconnect the motor leads and remove the motor. Remove the motor support rubber (rear), noise suppressor, and the motor support rubber (front). Place these items on the new motor.

3.8.2. Installation

1. Place the motor back into the dust compartment with brushes aligned parallel to the front edge of the dust compartment.
2. Rewire per the Pictorial Diagram.
3. Replace the motor case and the four (4) screws.
4. Turn the vacuum back over and replace the plastic holder, thick side out, plastic shaft, light bulb assembly, nozzle housing, belt, agitator assembly, and lower plate according to the respective installation instructions.

NOTE: For general servicing, it is necessary to eliminate pinching of any wire during reassembly. After servicing any electrical component or electrical enclosure, the unit should be reassembled and checked for dielectric breakdown or current leakage